

DEC 29 2005

Serial No. 10/085,575

Please replace the Abstract with the following:

**COMPUTATIONALLY EFFICIENT MEANS FOR OPTIMAL CONTROL WITH  
CONTROL CONSTRAINTS**

**ABSTRACT**

A method and system that reduces undesired vibration in a vehicle measures ambient vibration and generates a first command signal based upon the measured vibration. If a first component of the first command signal exceeds a maximum allowable, the first component of the first command signal must be constrained. A residual vibration resulting from the constraint of the first component is then calculated. A second command signal to compensate for ~~said~~ the residual vibration is then calculated. Force generators are then activated based upon the constrained first component and the second command signal in order to reduce the vibration.